

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on:

December 3, 2000, 06:23:06 ; Search time 23795.2 Seconds
(without alignments)
972.809 Million cell updates/sec

Title: US-09-227-881-1
Perfect score:
Sequence: 1 atctttgttcagttaccc.....caggcacctcagcacagc 5300

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1033670 seqs, 218378903 residues

Total number of hits satisfying chosen parameters: 2067340

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : GenEmbl:*

1: gb_bal:*

2: gb_ba2:*

3: gb_om:*

4: gb_ov:*

5: gb_dat:*

6: gb_ph:*

7: gb_p11:*

8: gb_p12:*

9: gb_pr1:*

10: gb_pr2:*

11: gb_pr3:*

12: gb_ro:*

13: gb_sy:*

14: gb_un:*

15: em_fun:*

16: em_hum1:*

17: em_hum2:*

18: em_in:*

19: em_om:*

20: em_or:*

21: em_ov:*

22: em_pat:*

23: em_ph:*

24: em_p1:*

25: em_ro:*

26: em_sts:*

27: em_sy:*

28: em_un:*

29: em_v1:*

30: gb_ba3:*

31: gb_in1:*

32: gb_in2:*

33: gb_in3:*

34: gb_p13:*

35: gb_pr4:*

36: em_bal:*

37: em_ba2:*

38: em_htg1:*

39: em_htg2:*

40: em_htg3:*

41: em_htg4:*

42: em_htg5:*

43: em_htg6:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	%	Match Length	DB ID	Description
C 1	5286	99.7	79375	65	HS4546	298750 Human DNA S
C 2	5275.4	99.5	5300	11	AF007562	AF007562 Homo sapi
C 3	5235	98.8	170425	77	AC024490	AC024490 Homo sapi
C 4	1858	35.0	2800	66	HSWOC1	AF049791 Homo sapi
C 5	423.4	8.0	1086	66	HSGC1A1	297171 Homo sapien
C 6	423.4	8.0	1228	9	AB006686S1	AB006686 Homo sapi
C 7	189.8	3.6	16157	10	AC007688	AC007688 Homo sapi
C 8	189.8	3.6	193123	77	AC023790	AC023790 Homo sapi
C 9	189	3.6	199722	71	AC012404	AC012404 Homo sapi
C 10	187.8	3.5	97037	9	AC004973	AC004973 Homo sapi
C 11	187.8	3.5	13508	67	HUMWWD703	Li78810 Homo sapien
C 12	185.8	3.5	76727	65	HS821D11	AL021453 Human DNA

c	13	185.8	3	5	152044	79	AC026959	AC026395 Homo sapius
c	14	185.8	3	5	150778	78	AC025947	AC025947 Homo sapius
c	15	185.8	3	5	161499	72	AC015488	AC015488 Homo sapius
c	16	185.8	3	5	184656	86	AL161226	AL161226 Homo sapius
c	17	185.8	3	5	180681	69	AC008755	AC008755 Homo sapius
c	18	185.6	3	5	201372	86	AL157931	AL157931 Homo sapius
c	19	184.8	3	5	146190	89	AP001813	AP001813 Homo sapius
c	20	184.8	3	5	162494	89	AP002391	AP002391 Homo sapius
c	21	184.8	3	5	182411	89	AP001354	AP001354 Homo sapius
c	22	184.6	3	5	176029	11	AC011362	AC011362 Homo sapius
c	23	184.2	3	5	130020	67	HUR005525	HUR005525 Homo sapius
c	24	184	3	5	157304	78	AC024720	AC024720 Homo sapius
c	25	184	3	5	187709	73	AC016168	AC016168 Homo sapius
c	26	184	3	5	233704	70	AC011407	AC011407 Homo sapius
c	27	183.6	3	5	207370	88	AL358932	AL358932 Homo sapius
c	28	183.6	3	5	129370	89	AP000699	AP000699 Homo sapius
c	29	183.6	3	5	169333	89	AP002789	AP002789 Homo sapius
c	30	183.6	3	5	193171	74	AC018723	AC018723 Homo sapius
c	31	183.4	3	5	41407	11	AC053457	AC053457 Homo sapius
c	32	183.4	3	5	149138	79	AC026936	AC026936 Homo sapius
c	33	183.4	3	5	155331	90	HSJ193411	HSJ193411 Homo sapius
c	34	183.4	3	5	14974	87	AL356055	AL356055 Homo sapius
c	35	183.4	3	5	195364	65	HS431A14	HS431A14 Human DNA S
c	36	183.4	3	5	195834	74	191914	AC019114 Homo sapius
c	37	183.2	3	5	41936	35	CH19R30879	AP000584 Homo sapius
c	38	183.2	3	5	70128	10	AC007556	AC007556 Homo sapius
c	39	183.2	3	5	119483	9	AC005588	AC005588 Homo sapius
c	40	183.2	3	5	145528	9	AC003665	AC003665 Homo sapius
c	41	183.2	3	5	167943	65	HS267M20	HS267M20 Human DNA
c	42	183.2	3	5	170245	65	HS109F14	AL022721 Human DNA
c	43	183	3	5	42686	9	AC000093	AC000093 Homo sapius
c	44	183	3	5	91767	10	AC007748	AC007748 Homo sapius
c	45	183	3	5	112748	10	AC007242	AC007242 Homo sapius

ALIGNMENTS

This sequence has been finished according to sequence map criteria as follows. An attempt is made to resolve all sequencing problems, such as compressions and repeats, but not necessarily within known annotated human repeat sequence elements (e.g. Alu). Where the sequence is ambiguous, there is an annotation using the 'unsure' feature key.

The true left end of clone 454G6 is at 1 in this sequence. The true left end of clone 560B9 is at 7923. 454G6 is from the library RP013 constructed at the Roswell Park Cancer Institute by the group of Pieter de Jong. For further details see <http://bacpac.med.buffalo.edu/>. Location/Qualifiers

1. . 79376

/organism="Homo sapiens"
 /db_xref="taxon:9605".

/chromosome="1"
 /map="1q21"
 /clone="RP013-454G6"
 /clone_id="RPCI-3"

435. . 472

/note="19 copies of 2 mer 82 % conserved"
 /note="1914 .>1968

/note="match: multiple ESTs
 match: R06676 AA043668 W03639 F12081 AA046699
 match: F02055 AA13140 W00634 R36066 AA313383
 match: AA163561 F02055 AA131540 W00534 R36056
 match: AA13383 AA133561 AA89173 AA14814 AA057059
 match: AA229084 W47082 AA043955 AA311783 AA353681
 match: AA046487 AA39741 H08313 AA186895 H32730
 match: H08333 H08236 N42052 D61944 R27102 N32353
 match: N010491 AA307150 AA192"
 3703. . 3716

/note="22 copies of 2 mer 89 % conserved"

REFERENCE	2 (bases 1 to 170425)	*	*	10588	12420: contig of 1833 bp in length
AUTHORS	Birren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N., Anderson,S., Baldwin,J., Barna,N., Beda,F., Boguskiwky,L., Boukhalter,B., Brown,A., Burkett,G., Campopiano,A., Castle,A., Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cooke,P., Dearlano,K., Dewar,K., Diaz,J.S., Dodge,J., Dominic,M., Doyle,M., Fenster,J., Ferreira,P., FitzHigh,W., Forrest,C., Gage,D., Galagan,J., Gardna,S., Glnde,S., Goettete,M., Graham,L., Grand-Pierre,N., Grant,G., Hagos,B., Heaford,A., Horton,L., Howland,J.C., Iliev,I., Johnson,R., Jones,C., Kann,L., Karatas,A., Klein,J., Landers,T., Largoque,K., Lehocky,J., Levine,R., Lieu,C., Liu,J., Locke,K., Macdonald,P., Marquis,N., McCarthy,M., McEwan,P., McGurk,A., McKernan,K., McPheevers,R., Meldrim,J., Menneus,L., Mihova,T., Miranda,C., Mlenga,V., Morrow,J., Nayir,J., Norman,C.H., O'Connor,T., O'Donnell,P., O'Neil,D., Oliver,T.M., Peterson,K., Pierre,N., Pisan,C., Pollard,V., Raymond,C., Riley,R., Rogov,P., Rothman,D., Roy,A., Santos,R., Schauer,S., Severy,P., Spencer,B., Strange-Thompson,N., Stojanovic,N., Subramanian,A., Talama,J., Tesfaye,S., Theodore,J., Turrell,A., Travers,M., Trigilio,P., Vassiliev,H., Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G., Zainoun,J., Zimmer,A. and Zody,M.	*	*	12421	12520: gap of 100 bp
TITLE	Direct Submission	*	*	12521	12520: gap of 100 bp
JOURNAL	Submitted (28-FEB-2000) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA	*	*	14844	14943: gap of 100 bp
COMMENT	On May 25, 2000 this sequence version replaced 91:7249345.	*	*	14944	14943: gap of 100 bp
COMMENT	All repeats were identified using RepeatMasker:	*	*	17266	17365: gap of 2322 bp in length
COMMENT	Smit, A.F.A. & Green, P. (1996-1997) http://ftp.genome.washington.edu/RM/RepeatMasker.html	*	*	17366	20071: contig of 2706 bp in length
COMMENT	----- Genome Center	*	*	20072	20171: gap of 100 bp
COMMENT	Center: Whitehead Institute/ MIT Center for Genome Research	*	*	20172	23531: contig of 3360 bp in length
COMMENT	Center code: WIBR	*	*	23532	23631: gap of 100 bp
COMMENT	Web site: http://www-seq.wi.mit.edu	*	*	36326	40015: contig of 2506 bp in length
COMMENT	Contact: sequence_submissions@genome.wi.mit.edu	*	*	44016	44115: gap of 100 bp
COMMENT	----- Project Information	*	*	44116	49493: contig of 5378 bp in length
COMMENT	Center project name: L7153	*	*	49494	49593: gap of 100 bp
COMMENT	Center clone name: 138_F_3	*	*	49594	56796: contig of 7203 bp in length
COMMENT	----- Summary Statistics	*	*	56797	56895: gap of 100 bp
COMMENT	Sequencing vector: M13; M7015; 100% of reads	*	*	56897	62860: contig of 5964 bp in length
COMMENT	Chemistry: Dye-terminator Big Dye; 100% of reads	*	*	62881	62960: gap of 100 bp
COMMENT	Assembly program: Phrap; version 0.96731	*	*	62961	72552: contig of 9592 bp in length
COMMENT	Consensus quality: 15483 bases at least Q40	*	*	72553	72652: gap of 100 bp
COMMENT	Consensus quality: 160439 bases at least Q30	*	*	72653	83310: gap of 10658 bp in length
COMMENT	Consensus quality: 164708 bases at least Q20	*	*	83311	83410: gap of 100 bp
COMMENT	Insert size: 16725; sum-of-contigs	*	*	83411	93092: contig of 9582 bp in length
COMMENT	Quality coverage: 4.1 in Q20 bases; agarose-fp	*	*	92993	93092: gap of 100 bp
COMMENT	Quality coverage: 4.1 in Q20 bases; sum-of-contigs	*	*	93093	103886: contig of 10794 bp in length
COMMENT	-----	*	*	103887	103886: gap of 100 bp
COMMENT	-----	*	*	103987	119418: contig of 15432 bp in length
COMMENT	-----	*	*	119419	119518: gap of 100 bp
COMMENT	-----	*	*	119519	136695: contig of 1717 bp in length
COMMENT	-----	*	*	136696	136795: gap of 100 bp
COMMENT	-----	*	*	136796	153977: contig of 17182 bp in length
COMMENT	-----	*	*	153978	154077: gap of 100 bp
COMMENT	-----	*	*	154078	170425: contig of 16348 bp in length.
FEATURES	1. .170425/Qualifiers	*	*		
SOURCE	/organism="Homo sapiens"	*	*		
	/db_xref="txon:9606"	*	*		
	/chromosome="1"	*	*		
	/map="1"	*	*		
	/clone="RPC11-138F3"	*	*		
	/clone_id="RPC11 Human Male BAC"	*	*		
	1. .1300	*	*		
	/note="Assembly fragment"	*	*		
	1401..2412	*	*		
	/note="Assembly fragment"	*	*		
	2513..4147	*	*		
	/note="Assembly fragment"	*	*		
	4248..5455	*	*		
	/note="Assembly fragment"	*	*		
	5556..6997	*	*		
	/note="Assembly fragment"	*	*		
	7098..8534	*	*		
	/note="Assembly fragment"	*	*		
	8335..10164	*	*		
	/note="Assembly fragment"	*	*		
	10165..10264	*	*		
	/note="Assembly fragment"	*	*		
	10265..10487	*	*		
	/note="Assembly fragment"	*	*		
	10488..10587	*	*		
	/note="Assembly fragment"	*	*		

AUTHORS	
Muzny, D., Arenson, A.D., Bouck, J., Bunn, C., Chen, Z., Ding, Y., Dugan, S., Durbin, J., Forcum, J., Garcia, C., Gorrell, J.H., Gorrell, J.L., Hernandez, J., Isar, A., Jackson, L., Kneitz, S., Kondelewski, N., Lau, S., Leal, B., Lee, E., Lichatowich, O., Liu, W., Logan, O., Lu, J., Marondel, I., Martinez, C., Merschian, S., Miller, A., Rashid, N.D., Rives, C., Scherer, S.E., Shen, H., Shim, C., Simon, M., Vo, Q., Williamson, A., Worley, K.C., Xiang, A.M., Yang, R., Yu, W., Zhou, X., Kucherlapati, R., Nelson, D. and Gibbs, R.A.	
FEATURES	
SOURCE	1. 1228
DEFINITION	Homo sapiens 12p12-27 2-31.7 BAC RPC11-39P7 (Roswell Park Cancer Institute Human BAC Library) complete sequence.
ACCESSION	AC007688
VERSION	AC007688.15
KEYWORDS	HTG.
SOURCE	human.
ORGANISM	Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.	
REFERENCE	
1 (bases 1 to 161577)	1 (bases 1 to 161577)
COMMENT	
1	
QUALSTAT-REPORT-----	
1	
----- Summary Statistics -----	
1	
Contig length:	161577
Phrap values in estimate:	160751
Average error rate (BCM-Phrap estimate):	0.000163681
Fraction of Phrap values less than 40 :	0.0375047
Number of consensus changing edits:	30
Number of N's in consensus :	0
----- Consensus changing edits -----	
1	

----- project information
 Center project name: hg344
 ----- Summary Statistics
 Sequencing vector: N/A
 Chemistry: Dye-terminator Big Dye; 100% of reads
 Assembly program: phrap; version 990315
 Consensus quality: 126801 bases at least 040
 Consensus quality: 138138 bases at least 030
 Consensus quality: 140422 bases at least 020
 Insert size: 14744; sum-of-contigs
 Quality coverage: 3.2x in Q20 bases; sum-of-contigs

 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 44 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.
 * 1006: contig of 1006 bp in length
 * 6889 72494: contig of 4406 bp in length
 * 72495 72594: gap of unknown length
 * 72295 75643: contig of 3049 bp in length
 * 75644 75743: gap of unknown length
 * 75744 7510: contig of 3767 bp in length
 * 79511 79610: gap of unknown length
 * 79611 84664: contig of 5054 bp in length
 * 84665 84764: gap of unknown length
 * 84765 90534: contig of 5750 bp in length
 * 90515 90614: gap of unknown length
 * 90615 9185: contig of 5571 bp in length
 * 96225: gap of unknown length

* 22 *Priscilla*: contig of 1006 bp in length

```

Source
1. 152044
  /organism="Homo sapiens"
  /db_xref="taxon:9605"
  /chromosome="10"
  /clone="RP11-44D20"
  /clone_id="RPCI-11"
  /clone_lib="RPCI-11"
  /origin
  BASE COUNT 40176 a 33928 c 33229 g 40362 t 4349 others
  ORIGIN

```

Query Match 3.5%; score 185.8; DB 79; Length 152044;
 Best Local Similarity 80.8%; Pred. No.: 7.1e-30;
 Matches 232; Conservative 0; Mismatches 47; Indels 8; Gaps 1;

Query Match	3.5%	Score	185.8	DB	79	Length	152044
Best Local Similarity	80.8%	Pred. No.	7.1e-30				
Matches	232	Conservative	0	Mismatches	47	Indels	8
Y	1321	acctgagactactgaaaccttgcgtcccccgggttaaggaaattctctgtgtcagcc	1380				
Y	30398	ATCTCGCTCTACTGCACCCACCCACCCGGTCTAGTGATTCCTCGCCCTCAGCCTCC	30339				
Y	1381	cgcgttagctggggactacagg-----gacgcggcggtaattttgtatgttaga	1432				
Y	30338	TGAGTGGCTGGGATTCAGCCACCACTAACCCACGCCAACGCTTAATTGTTGATTTAGTA	30279				
Y	1433	gagatgggtttcaccatattagccgggtggcttgcactctggatcc	1492				
Y	30278	GAGATGGGTTTCACCATGTTGCCAGGCTGGTCTGACTCTGACCTCAGGTTGATCCA	30219				
Y	1493	ccacacctcagccctaaaggctggatcacaggatgatgatcacccggccggccaa	1552				
Y	30218	CCGGCTTACCTCCAAAGTCCTGGATTCAGCCATGACCCAGCTGACCTGGCCAAATT	30159				
Y	1553	gtcagttttatataaggataactttgtttactaaacccaaagg	1599				
Y	30158	TAATTTTTTATGAAKAAATGGATTTAAACACAG	30112				

```

42411: long 01_2012 bp in length
42511: gap of unknown length
42512: contig of 3127 bp in length
45638: contig of unknown length
45639: gap of unknown length
49739: contig of 4001 bp in length

```

AC025947 / C
AC025947 157057 bp DNA
LOCUS

DNA

五

370

63

1

Db	16949	GGCTCTGAATCTCTGACCTCTAGATGTCGCCCGCTCGGCCCTCCAAAGCTGGAT	17008
Oy	1523	acacggatggatcaccgcgcggccaaagggtcagtgtaataaaggaaatc	1575
Db	17009	ACAGGGTGTGACCGCAGCTTATTTAATTTATTTATACAC	17061

Search completed: December 3, 2000, 17:37:21
Job time: 40455 sec

